

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244385

Luminaire Tested: **LSR8B50D010 EC8B50830 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50830 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5218.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

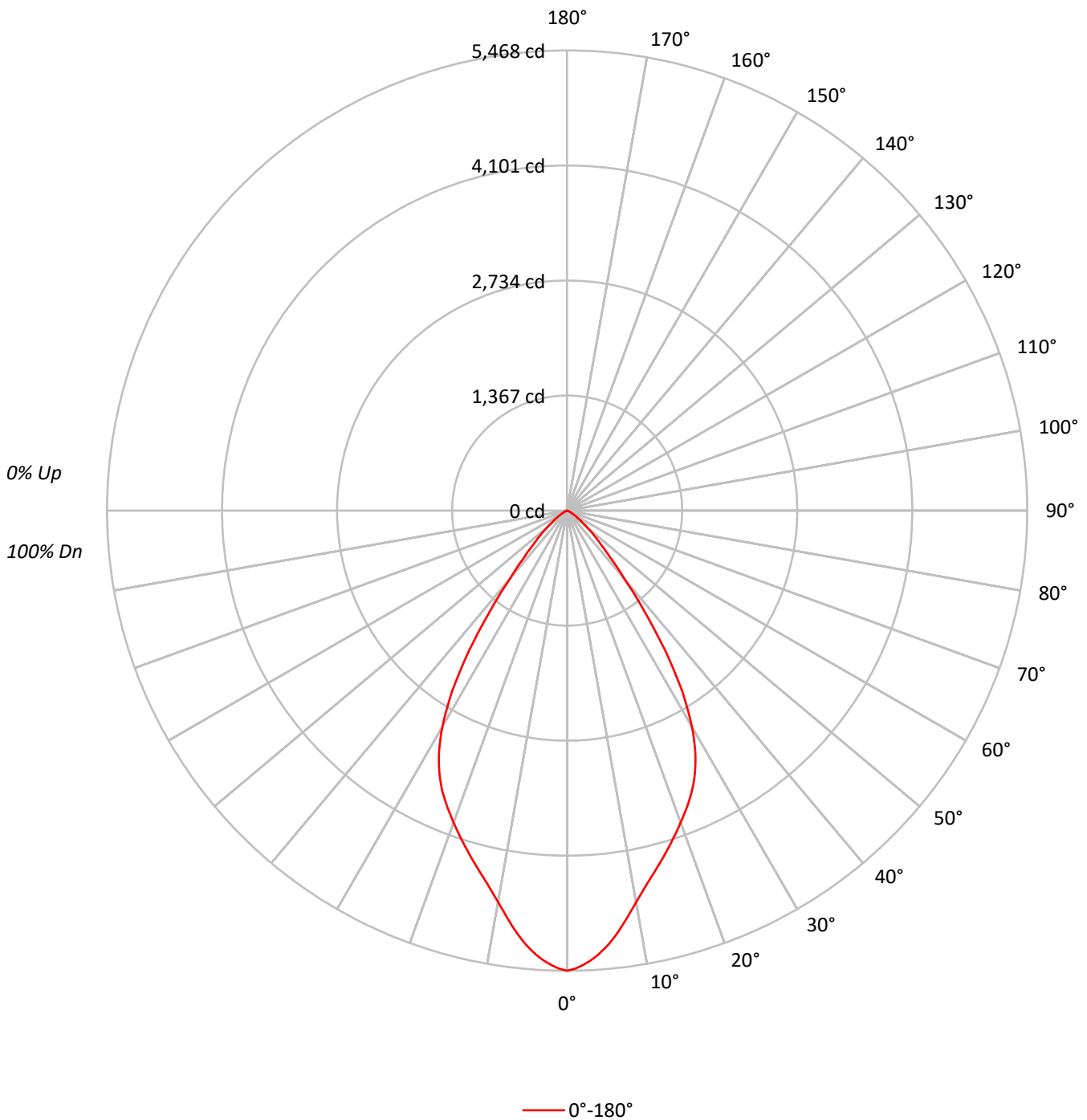
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	168607
5°	161454
10°	147943
15°	137660
20°	129476
25°	121139
30°	105645
35°	76354
40°	42806
45°	24626
50°	15073
55°	8580
60°	4459
65°	2277
70°	1235
75°	739
80°	444
85°	425



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.6	9.2
10°-20°	1212.2	23.2
20°-30°	1617.5	31.0
30°-40°	1246.7	23.9
40°-50°	464.9	8.9
50°-60°	152.0	2.9
60°-70°	35.1	0.7
70°-80°	7.0	0.1
80°-90°	1.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3311.3	63.5
0°-40°	4558.0	87.4
0°-60°	5174.9	99.2
0°-90°	5218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5218.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5468	
5°	5216	482
15°	4312	1212
25°	3560	1617
35°	2028	1247
45°	565	465
55°	160	152
65°	31	35
75°	6	7
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5467.8
1°	5444.1
2°	5404.2
3°	5353.1
4°	5290.7
5°	5215.9
6°	5131.2
7°	5033.9
8°	4930.5
9°	4823.3
10°	4724.8
11°	4630.0
12°	4541.5
13°	4460.5
14°	4385.7
15°	4312.1
16°	4237.3
17°	4165.0
18°	4090.2
19°	4016.7
20°	3945.6
21°	3872.1
22°	3801.0
23°	3726.2
24°	3647.7
25°	3560.4
26°	3464.4
27°	3358.5
28°	3241.3
29°	3110.4
30°	2967.0
32.5°	2546.9
35°	2028.3
37.5°	1502.2
40°	1063.4
42.5°	761.7
45°	564.7
47.5°	425.1
50°	314.2
52.5°	224.4
55°	159.6
57.5°	109.7
60°	72.3
62.5°	47.4
65°	31.2



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	21.2
70°	13.7
72.5°	8.7
75°	6.2
77.5°	3.7
80°	2.5
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0

(END OF REPORT)